## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 23 October 2003 (23.10.2003)

PCT

## (10) International Publication Number WO 03/087408 A2

(51) International Patent Classification?: C12Q 1/68, A61K 38/00, 48/00, 39/395, A01K 67/027, G01N 33/53

(21) International Application Number: PCT/GB03/01543

(22) International Filing Date: 7 April 2003 (07.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: GB 0207902.8 5 April 2002 (05.04.2002) GB GB 0207904.4 5 April 2002 (05.04.2002) GB 0207900.2 5 April 2002 (05.04.2002) GB GB 0207901.0 5 April 2002 (05.04.2002) GB 28 November 2002 (28.11.2002) GB 0227734.1 GB GB 0227733.3 28 November 2002 (28.11.2002)

(71) Applicant (for all designated States except US): UNI-VERSITY COURT OF THE UNIVERSITY OF EDINBURGH [GB/GB]; Old College, South Bridge, Edinburgh EH8 9YL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PICKARD, Benjamin, Simon [GB/GB]; 2 Noble Place, Edinburgh EH6 8AX (GB). BLACKWOOD, Douglas [GB/GB]; 7 Pitsligo Road, Edinburgh EH10 4RY (GB). PORTEOUS, David, John [GB/GB]; Cherrytrees, 8 Cammo Gardens, Edinburgh EH4 8EH (GB). MUIR, Walter, John [GB/GB]; Chestnuts, Eshiels, Peebles, Tweeddale EH45 8NA (GB).

MORS, Ole [DK/DK]; Permelillevej 7, DK-8240 Risskov (DK). EWALD, Henrik, Lykke [DK/DK]; Montanagade 9, DK-8000 Aarhus C (DK).

(74) Agents: MACDOUGALL, Donald, Carmichael et al.; Cruikshank & Fairweather, 19 Royal Exchange Square, Glasgow G1 3AE (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SCHIZOPHRENIA ASSOCIATED GENES

(57) Abstract: The present invention relates to the identification of genes which have been disrupted in patients diagnosed as suffering from schizophrenia and/or bi-polar affective disorder, as well as proteins encoded by the gene and antibodies thereto and to uses of such products as medicaments for treating schizophrenia and/or affective psychosis. The invention also relates to methods for diagnosing patients suffering or predisposed to schizophrenia and/or affective psychosis, as well as screens for developing novel treatment regimes for schizophrenia and/or affective psychosis.

